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**(12) United States Patent  
Greeff****(10) Patent No.: US 6,363,745 B1  
(45) Date of Patent: \*Apr. 2, 2002****(54) CUT CORNERED SQUARE MIXED-CUT  
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(US)****(\*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

**(21) Appl. No.: 09/373,904****(22) Filed: Aug. 12, 1999****Related U.S. Application Data****(63)** Continuation of application No. 09/203,118, filed on Dec. 1, 1998, now Pat. No. 5,970,744.**(51) Int. Cl.<sup>7</sup> ..... A44C 17/00****(52) U.S. Cl. .... 63/32; D11/89; D11/90****(58) Field of Search .... 63/32; D11/89, D11/90****(56) References Cited****U.S. PATENT DOCUMENTS**

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**(57) ABSTRACT**

A cut cornered mixed-cut square gemstone comprises a step-cut crown, with two steps and a table, a girdle and a pavilion. The crown and pavilion are substantially square with four equal sides, and corners about  $\frac{1}{3}$  the length of the sides. The pavilion sides and corners are defined by eight rib lines which extend substantially continuously from the girdle to a culet. Each pavilion side and corner has four facets, including a lower girdle star facet, two lower girdle facets and a lower bezel facet. The gemstone has the classic elegance of a step cut in the crown and attempts to achieve the good dispersion of a brilliant cut in the pavilion.

**15 Claims, 7 Drawing Sheets**